

ABSTRACT

An object of the present invention is to provide a variable power distributor capable of calculating an error between transmission lines of two systems after building a variable power distributor and correcting the set value of the amplitude and the phase according to the error, an error detection method for the variable power distributor, and a set value correction method. The variable power distributor includes: a two-way distributor provided on an input side of a set of transmission lines consisting of a first and a second transmission line; a 90-degree hybrid circuit provided on an output side of the set of transmission lines; and a variable phase shifter, variable resistance attenuator, and a power amplifier which are provided on each of the set of the transmission lines between the two-way distributor and the 90-degree hybrid circuit. The variable power distributor further includes error detection means for monitoring an output signal from the 90-degree hybrid circuit and detecting an error existing in each component between the first and the second transmission lines based on the monitor output.